ICF-S14

SERVICE MANUAL

US Model



SPECIFICATIONS

Frequency range FM: 87.6 - 108 MHz

AM: 530 - 1,605 kHz

Antennas FM: Telescopic antenna

AM: Built-in ferrite bar antenna Approx. 5.7cm(2 1/4 inches) dia.

Speaker Approx. 5.7cm(2 1/4 inches) dia.

Power output 100 mW (at 10% harmonic distortion)

Power requirements 3V DC, two R6(size AA) batteries

Battery life Approx. 30 hours of listening (for

four hours a day at a normal volume),

using Sony SUM-3(NS) batteries
Dimensions Approx. $69 \times 120 \times 335 \text{ mm (w/h/d)}$

 $(2 \ 3/4 \ x \ 4 \ 3/4 \ x \ 1 \ 3/8 \ inches)$

Weight Approx. 210 g (7.4 oz.) incl. batteries

Design and specifications subject to change without notice.

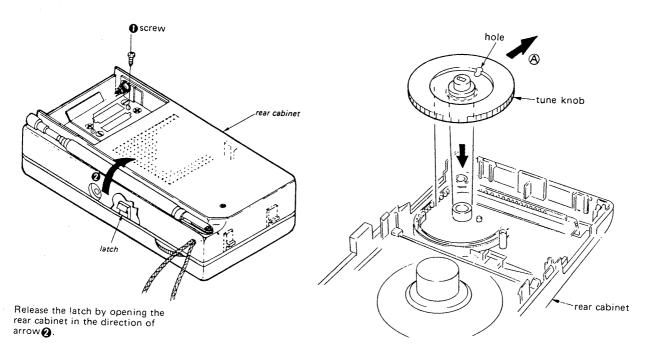


SECTION 1 DISASSEMBLY

1-1. REAR CABINET REMOVAL

Note: Follow the disassembly procedure in the numerical order given.

1-3. TUNE KNOB INSTALLATION



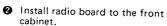
Set the hole of tune knob in the direction of arrow (a) and install it to rear cabinet.

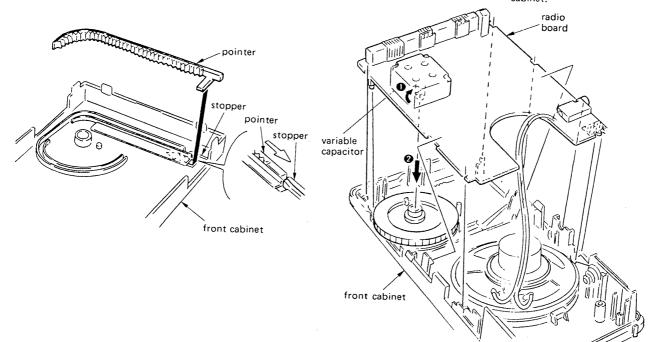
1-2. POINTER SETTING

Slide the pointer to reach the stopper.

14. RADIO BOARD INSTALLATION

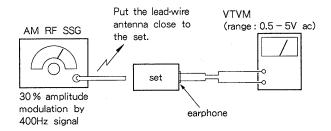
Turn the variable capacitor fully in the direction of arrow.





SECTION 2 ADJUSTMENTS

AM SECTION



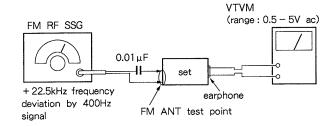
Repeat the procedure in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

AM FREQUENCY COVERAGE ADJUSTMENT						
Adjust for a maxi	Adjust for a maximum reading on VTVM.					
L4	L4 CT3					
520kHz	1,650kHz					

AM TRACKING ADJUSTMENT						
Adjust for a maximum reading on VTVM.						
L2	CT1					
620kHz	1,400kHz					

AM IF ALIGNMENT				
Adjust for a maximum	m reading on VTVM.			
Т	1			
4551	кНz			

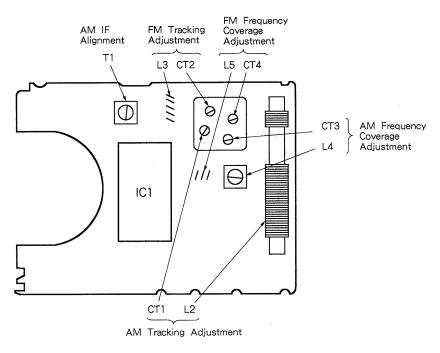
FM SECTION



Repeat the procedure in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

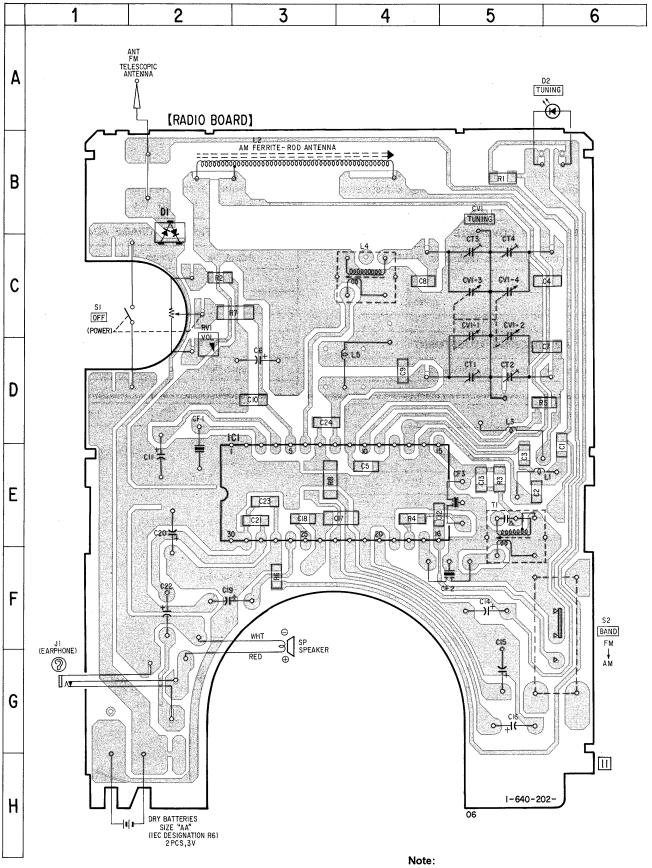
FM FREQUENCY COVERAGE ADJUSTMENT						
Adjust for a maxi	Adjust for a maximum reading on VTVM.					
L5	L5 CT4					
86.5MHz	109.5MHź					

FM TRACKING ADJUSTMENT						
Adjust for a maximum reading on VTVM.						
L3 CT2						
86.5MHz	109.5MHz					



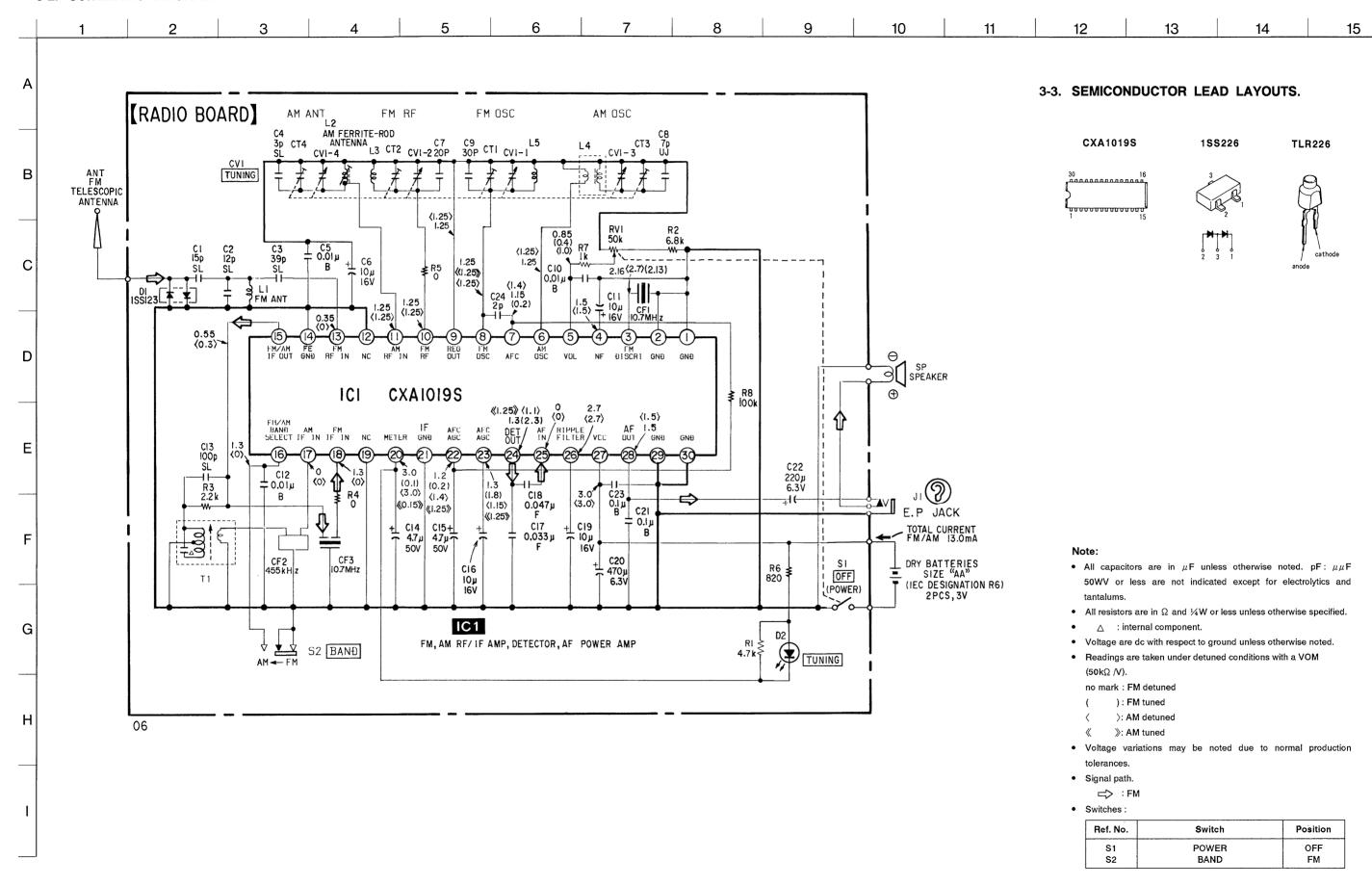
SECTION 3 DIAGRAMS

3-1. PRINTED WIRING BOARD



• o---- : parts extracted from the component side.

3-2. SCHEMATIC DIAGRAM



SECTION 4 EXPLODED VIEW

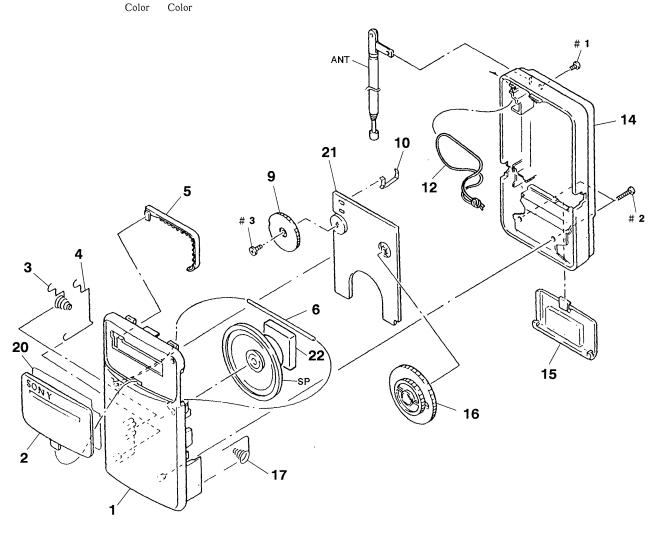
NOTE:

- -XX,-X mean standardized parts, so they may have some difference from the original one.
- Color indication of Appearance Parts. Example:

KNOB,BALANCE (WHITE) . . . (RED)

† † †
Parts Cabinet's
Color Color

- Items marked "* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1 2	3-369-878-01	CABINET (FRONT) SCALE, DIAL	,	14 15	X-3363-538-1	CABINET (REAR) ASSY, BATTEREY CASE	
3		TERMINAL, PLUS		16		KNOB (TUNING)	
4		SPRING, MINUS		17	3-903-414-01	TERMINAL, MIDWAY	
5	3-369-877-01	POINTER		20	3-903-417-01	SHEET, ADHESIVE	
* 6	3-903-416-01	SPRING, SPEAKER RETAINER		* 21	A-3679-357-A	RADIO BOARD, COMPLETE	
9	3-893-375-01	KNOB, VOL		22	3-831-441-11	CUSHION	
* 10	3-893-369-01	TERMINAL, ANT		ANT	1-501-247-31	ANTENNA, TELESCOPIC	
12	3-893-381-01	STRAP, HAND		SP	1-503-616-11	SPEAKER	

SECTION 5 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the part specified in the diagrams or the components used on the set.
- -XX,-X mean standardized parts, so they may have some difference from the original one.
- RESISTORS

All resistors are in ohms

 $METAL: Metal-film\ resistor$

METAL OXIDE : Metal Oxide-film re-

sistor

F: nonflammable

• Items marked "* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• SEMICONDUCTORS

In each case, $u: \mu$, for example :

uA...: μA..., uPA...: μPA...,

uPB...: μ PB..., uPC...: μ PC...,

uPD...: μPD...

• CAPACITORS

 $uF: \mu F$ • COILS

..U · ./L

 $uH: \mu H$

When indicating parts by reference number, please include the board name.

Ref. No.	Part No.	Description		Rema	ark	Ref. No.	Part No.	Description	,	Remark
*	A-3679-357-A	RADIO BOARD, COM	MPLETE					< FILTER >		
		*******	*****							
	0 000 075 01	WHOD HOL				CF1		FILTER, CERAMIC FILTER 455KHz	10.7MHz	
*	3-893-375-01	TERMINAL, ANT				CF2 CF3		FILTER, CERAMIC	10 7MH2	
ዯ		SCREW, PRECISION	+P 1 7X4			CLO	1 501 051 01	TIBIBIC, CERUMIC	10. (11112)	
	1 001 000 41	Sellen, Tribetotor	1. 1.1.1					< TRIMMER >		
•		< CAPACITOR >								
						CT1-4	-1-151-691-11	CAP, VAR (FM/AM))	
C1	1-163-097-00		15PF	5%	50V	CV1-4∫		(2.11)		
C2	1-163-095-00		12PF	5%	507			/ DIODE >		
C3		CERAMIC CHIP	39PF	5%	50V 50V			< DIODE >		
C4 C5		CERAMIC CHIP	3PF 0.01uF		50V	D1	8-719-800-76	DIODE 1SS226		
Co	1-104-232-11	CERAMIC CITT	o. orur		301	D2	8-719-812-26		(TUNING)	
C6	1-126-964-11	ELECT	10uF	20%	16V	2.2	0 120 012 20		(=======	
C7	1-163-100-00	CERAMIC CHIP	20PF	5%	50V			< IC >		
C8	1-163-090-00	CERAMIC CHIP	7PF		50V					
C9		CERAMIC CHIP	30PF	5%	507	IC1	8-752-035-29	IC CXA1019S		
C10	1-164-232-11	CERAMIC CHIP	0.01uF		50V			Z TACK N		
011	1 100 004 11	DIDOT	10uF	20%	16V			< JACK >		
C11 C12	1-126-964-11	CERAMIC CHIP	0. 01uF	20%	50V	J1	1-507-952-11	IACK		
C12		CERAMIC CHIP	100PF	5%	50V	JI	1 301 332 11	onen		
C13	1-124-927-11		4. 7uF	20%	100V			< COIL >		
C15	1-124-927-11		4. 7uF	20%	100V					
					1	* Ll	1-422-326-11	COIL, AIR-CORE	(FM ANT)	
C16	1-126-964-11	ELECT	10uF	20%	16V	L2		ANTENNA, FERRIT	E-ROD (MW)	
C17	1-163-074-00	CERAMIC CHIP	0.033uF		50V	* L3		COIL, AIR-CORE		
C18		CERAMIC CHIP	0.047uF		50V	L4		COIL, OSC (MW)		
C19	1-126-964-11		10uF	20%	16V	L5	1-422-341-11	COIL, AIR-CORE		
C20	1-124-472-11	ELECT	470uF	20%	10V			< RESISTOR >		
C21	1_164_004_11	CERAMIC CHIP	0. 1uF	10%	25V			/ VESISION /		
C21	1-164-004-11		220uF	20%	1.07	R1	1-216-065-00	METAL CHIP	4.7K 5%	1/10W
C23		CERAMIC CHIP	0. 1uF	10%	25V	R2	1-216-069-00		6.8K 5%	1/10W
C24		CERAMIC CHIP	2PF		50V	R3	1-216-057-00		2.2K 5%	1/10W
						R4	1-216-295-00		0 5%	1/10W
						R5	1-216-295-00	METAL CHIP	0 5%	1/10W

RADIO

REVISED

D - 6 N -	Don't No	Dogomina	: a.n			Remark		
Rei. No.	Part No.	Descript	<u>1011</u>			Remark		
R6	1-216-047-00	METAL CH	IP	820	5%	1/10W		
R7	1-216-198-00	METAL CH	ΙP	1K	5%	1/8W		
R8	1-216-246-91							
		< SWITCH	>					
S1 RV1	1-237-594-11	RES, VAR	, CARBO	N (WIT	H S) 5	OK (OFF)		
,	1-552-370-00	SWITCH,	SLIDE (1	BAND)				
		< TRANSF	ORMER >					
	1-404-341-00			4. 4. 4. 4. 4.	رود داد داد داد داد داد	ato		

MISCELLANEOUS								

ANT	1-501-247-31	ANTENNA,	TELESC	OPIC				
SP	1-503-616-11	SPEAKER						

	ACCESSORIE	S & PACKI	NG MATE	RIALS				

3-904-938-02 CARD, BOARD (ENGLISH)

(Includeing the Instruction manual)

******* HARDWARE LIST *******

#1 7-621-772-08 SCREW +B 2X3

#2 7-685-134-19 SCREW +BTP 2.6X8 TYPE2 N-S

#3 7-627-552-47 SCREW, PRECISION +P 1.7X4

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